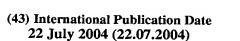
(19) World Intellectual Property Organization

International Bureau





Y 1847 BENNADDA NY BURNA NY BENNY BENNY BENNY BURNA NY DIA BENNY BENNY BURNA NY BURNA BURNA BURNA NADRA NY HEBEN

PCT

(10) International Publication Number WO 2004/060147 A3

(51) International Patent Classification⁷:

A01N 1/00

(21) International Application Number:

PCT/US2003/041605

(22) International Filing Date:

31 December 2003 (31.12.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/437,200

31 December 2002 (31.12.2002) US

- (71) Applicant (for all designated States except US): THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS [US/US]; 352 Administration Building, 506 South Wright Street, Urbana, IL 61801 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): WEINBERG, Guy [US/US]; 1737 West Polk Street (MC 672), Suite 310 Administration office Building, Chicago, IL 60612 (US). HOFFMAN, William, E. [US/US]; 1737 West Polk Street (MC 672), Suite 310 Administration office Building, Chicago, IL 60612 (US). RIPPER, Richard [US/US]; 1737 West Polk Street (MC 672), Suite 310 Administration office Building, Chicago, IL 60612 (US). FEINSTEIN, Douglas [US/US]; 1737 West Polk Street (MC 672), Suite 310 Administration office Building, Chicago, IL 60612 (US).

- (74) Agent: WRONA, Thomas, J.; Marshall, Gerstein & Borun LLP, 6300 Sears Tower, 233 South Wacker Drive, Chicago, IL 60606 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report:

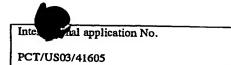
 10 September 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: TISSUE AND ORGAN PRESERVATION, PROTECTION AND RESUSCITATION

(57) Abstract: The present invention provides compositions and methods for protecting tissues and organs from damage during transplantation or from acute ischemia due to, e.g., injury or surgery., The compositions protect the tissue or organ from acidosis, oxidative damage, ischemia and repurfusion injury while the organ is isolated from the normal circulation or receives inadequate arterial flow.





A. CLASSIFICATION OF SUBJECT MATTER			
IPC(7) : A01N 1/00			
US CL : 435/1.1, 1.2, 1.3, 374; 436/18			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)			
U.S.: 435/1.1, 1.2, 1.3, 374; 436/18			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Flantrania data basa sangultad daring da internal			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST			
LENO 1			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where	appropriate of the relevant passages	Relevant to claim No.
A	US 6,030,766 A (MASAKI et al) 29 February 200	00 (29 02 2000) see entire document	
	2002000 200	(25.52.2666), see entire document.	1-4, 26-30
		·	
			i
			i
			j
	•		
}			
Further	documents are listed in the continuation of Box C.	See patent family annex.	
* Sp	pecial categories of cited documents:	"T" later document published after the inter	national filing date or design
		date and not in conflict with the applica	tion but cited to understand the
	defining the general state of the art which is not considered to be ar relevance	principle or theory underlying the inver	ition.
"B" earlier apr	aliantian on natural sub-lists of sure of the state of th	"X" document of particular relevance; the c	laimed invention cannot be
B carner app	dication or patent published on or after the international filing date	considered novel or cannot be considered	ed to involve an inventive step
"L" document	which may throw doubts on priority claim(s) or which is cited to	when the document is taken alone	
specified)	ne publication date of another citation or other special reason (as	"Y" document of particular relevance; the c	laimed invention cannot be
•		considered to involve an inventive step combined with one or more other such	when the document is
"O" document	referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in the art	
"P" document	published prior to the international filing date but later than the	"&" document member of the same patent fa	mily
priority da	te claimed	parties and parties are an approximate and parties and	,
Date of the actual completion of the international search Date		Date of mailing of the international search report	
· · · · · · · · · · · · · · · · · · ·			
25 June 2004		Z	Z JUL ZUIA
Name and mailing address of the ISA/US		Authorized officer	
Mail Stop PCT, Attn: ISA/US Commissioner for Patents		Authorized officer Leon Lankford A. Roberts for Telephone No. 571-272-1600	
P.O. Box 1450		(y. results Jol	
Facsimile No. (703) 872-9306			

Form PCT/ISA/210 (second sheet) (July 1998)